Burns, doane, swecker and mathis llp Appln. Filing Date: February 14, 2001

TITLE: MULTI-DIMENSIONAL TABLE DATA MANAGEMENT... **ATTORNEY DOCKET NO:** 030675-050 11 **SHEETS**

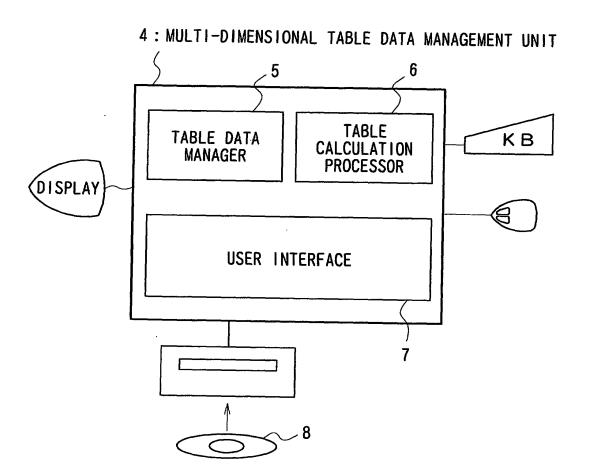


Fig.1

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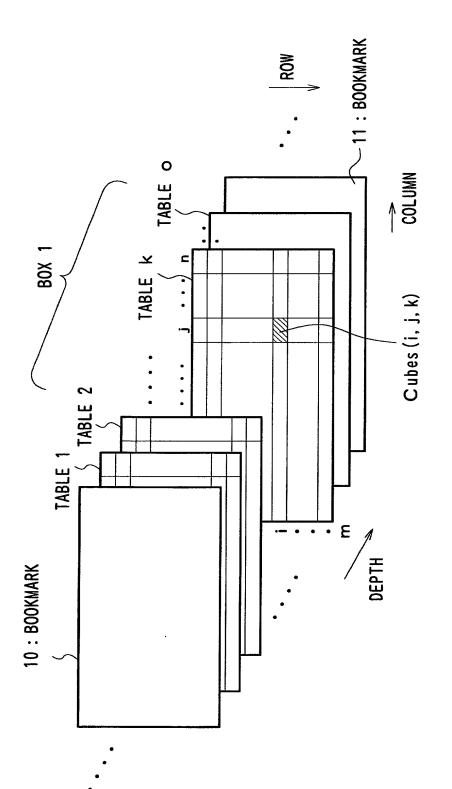


Fig.2

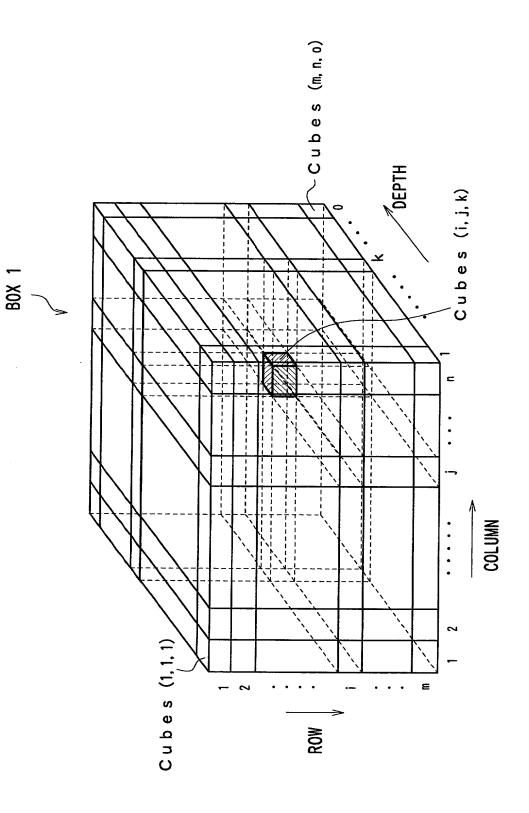


Fig.3

EXAMPLE OF SORT BY CULUMN

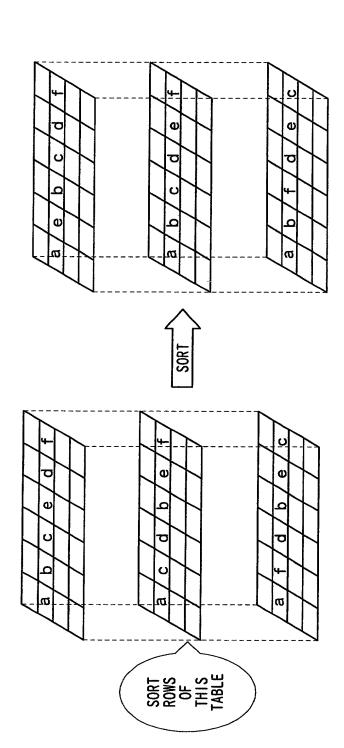
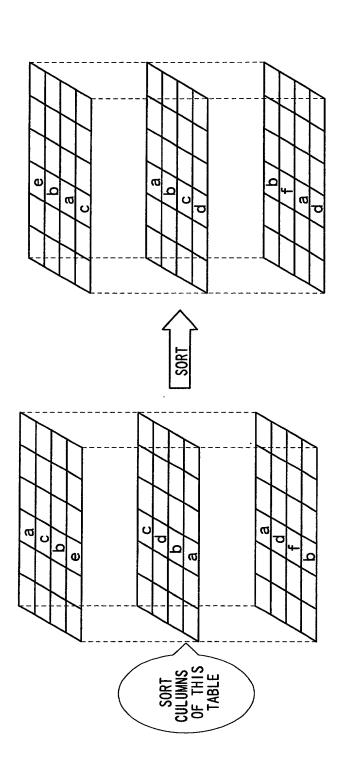


Fig.4

EXAMPLE OF SORT BY ROW



Fid.5

EXAMPLE OF SORT BY DEPTH

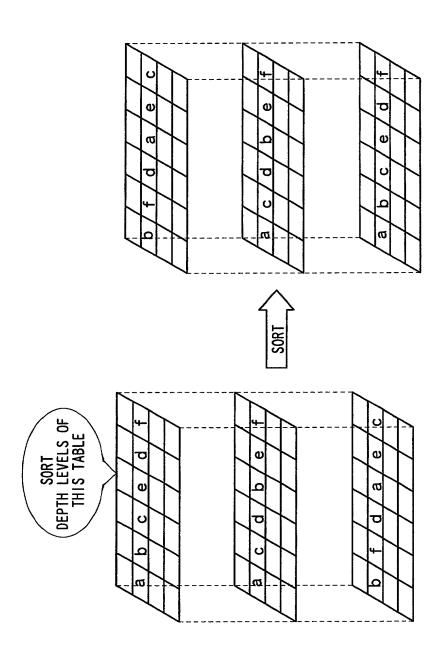


Fig.6

Cubes (R-1, C-1, D-1) Cubes (1, 2, 1) Cubes (1, 3, 1) RC [-3] D: Cubes (3, 1, 1) Cubes (2, 2, 1) Cubes (2, 3, 1) RC [-1] D) Cubes (3, 1, 1) Cubes (3, 2, 1) Cubes (3, 3, 1) RC [-1] D) Cubes (1, 1, 2) Cubes (1, 2, 2) Cubes (1, 3, 2) RC [-1] D) Cubes (1, 1, 2) Cubes (1, 2, 2) Cubes (1, 3, 2) RC [-1] D) Cubes (2, 1, 2) Cubes (2, 2, 2) Cubes (3, 3, 2) RC [-1] D) Cubes (3, 1, 2) Cubes (3, 2, 2) Cubes (3, 3, 2) RC [-1] D) SSUM (R [-3] DD: RC [-1] D) Cubes (3, 1, 2) Cubes (2, 2, 2) Cubes (3, 3, 2) RC [-1] D) SSUM (R [-3] DD: RC [-1] D) SSUM (RC [-3] D: RC [-1] D) SSUM (RC [-3] D: RC [-1] D) SSUM (RC [-3] D: RC [-1] D) RC [-1] D) SSUM (RC [-3] D: RC [-1] D) RC [-1] D) RC [-1] D) SSUM (RC [-3] D: RC [-1] D) RC [-1
23

Fig.

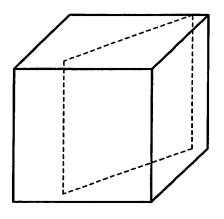


Fig.8

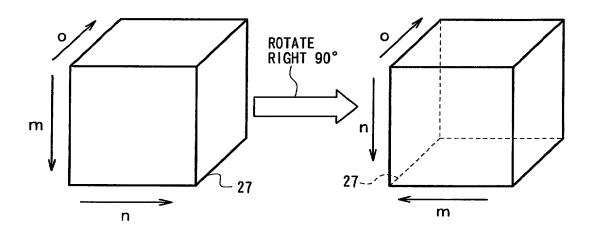


Fig.9

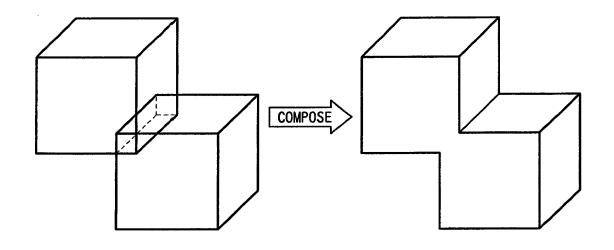


Fig.10

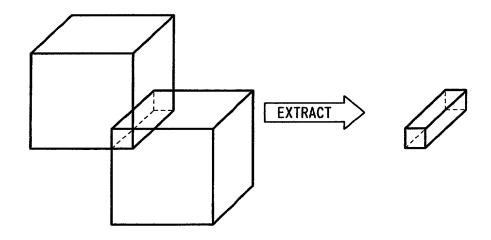


Fig.11

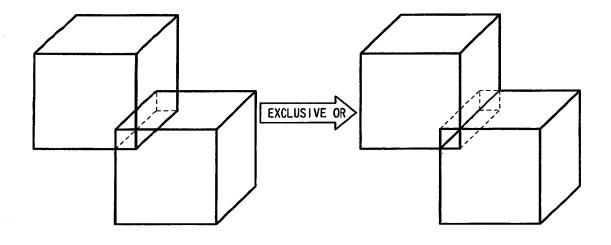


Fig.12

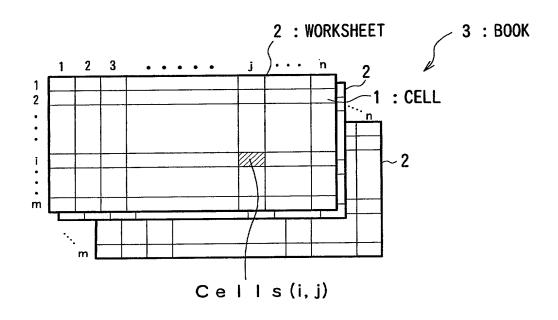


Fig.13 PRIOR ART